DESKO PENTA Scanner® 4X

High-quality scanner as desktop unit or for OEM applications

Whether airlines and airports, border control and immigration environments, public authorities, businesses and retailers or banks and insurance companies – every industry has its unique objectives and requirements, like e.g. OEM integration within self-service applications. To fulfill these customized concepts, we at DESKO developed the DESKO PENTA Scanner® 4X, a flexible fullpage scanner platform solution for ID data entry and verification as well as document authentication. The multifunctional housing design is optimized for both usage as a table-top device, as well as the convenient integration in gates, kiosks and counters. With its small footprint and compact design, the PENTA Scanner® 4X requires only a minimum of space.
The innovative PENTA Scanner 4X with multifunctional housing is by default equipped with high-class scan technology delivering excellent images with a resolution of up to 900 dpi. An included state-of-the-art image sensor ensures an improved image capturing and a better image definition.
The super-fast USB 3.0 connection accelerates workflows by an increased data transfer rate. Depending on the hardware configuration, the PENTA Scanner 4X can even be powered via USB so you can operate the device independently from an external power supply.
Of course, the PENTA Scanner 4X supports well-proven DESKO OCR technology for MRZ and VIZ reading and includes a RFID module. For document authentication, it is equipped with visible, IR and UV-A light sources. Additionally available features comprise a barcode reader, an illumination package for in-depth document verification including a co-axial light source as well as a Bluetooth/WIFI module to engage ISO 18013-5 compliant mobile Documents



Your Advantages

- *Full-page, passport and ID document reader with a resolution of up to 900 dpi under different light sources*
- *USB powered – USB 3.0 connection for increased data transfer rate and simplified installation (depending on hardware configuration)*
- *Extended illumination package for in-depth document inspection: coaxial light (optional)*
- *Scanning pane of glass can be exchanged by the user*
- *Barcode engine for efficient barcode reading (optional)*
- *Housing design optimized for integration*

for OEM and desktop use

“ONE HOUSING FOR ALL PURPOSES”



TECHNICAL DATA

Footprint*:
L 190 mm (7.48 inches) ×
W 143 mm (5.63 inches) ×
H 101,5mm (3.90 inches)

Weight:
810 g

Operating Temperature:
0°C – 50°C

Scan Window:
L 94 mm (3.7 inches) ×
W 131 mm (5.2 inches)

Light sources:
IR, visible light and UV-A, optional extended illumination package for in-depth security checks (coaxial light)

Image formats:
JPG, BMP, PNG

Resolution:
Up to 900 dpi

Interface:
USB 3.0 host interface
USB powered**
LAN (Web API) (optional)

Status Indicator:
Audible and visible

**with rubber feet*

*** Depending on hardware configuration.*

Scan Features

- ID and passport image scanning under visible, IR and UV-A light
- Extended illumination package: coaxial light (optional)
- Scan without full cover for all light sources possible for easier user handling
- Optimized for OCR data collection
- RFID & NFC Reading Module: integrated RFID module is a dual antenna design that is especially designed for ePassport and NFC reading
- Document size detection (e.g. for ID1 cards additional scan for backside necessary)
- Passport or ID card portrait available as separate image
- Reflection removal scan technology prevents spots caused by laminate or holographic print
- Automatic scan trigger based on document detection
- Automatic crop and rotate including back-ground elimination of scanned image
- Move Detection: ensures that only non-blurred scans are processed
- Rugged Design: solid box and Corning® Gorilla® Glass 3 on scan area
- OEM Solution: perfect for integration into gates or kiosks

Optional Features

- Barcode Recognition Module: embedded barcode engine with 1D/2D barcode reader
- Chip Card Module: integrated chip card reader for reading contact chip and smart cards
- SAM Module: integrated secure access module
- Light Sources: coaxial light
- Bluetooth/WIFI module to engage ISO 18013-5 compliant mobile Documents
- Sapphire Glass: for maximum longevity under extreme conditions; ideal for eGates or border control
- Long-lasting protection for the security glass: DESKO Elephant Foil®

Basic Authentication Features (Software required)

- B900 Ink Check: detect if MRZ was printed using B900 ink
- ICAO MRZ Compliancy: check if MRZ complies with ICAO regulations
- Checksum Verification: see if MRZ is reasonable and valid
- UV Dullness Check: use integrated UV light source to check if data page is made of optical unresponsive material (UV security printings)
- Age Verification: find out age of passport holder
- Document Expiry Date: verify if document is still valid or if it has already been expired

User Feedback and Guidance

- Light: integrated & programmable multicolor LED
- Sound: programmable buzzer with adjustable volume and pitch

Certifications

- CB, CE, FCC, REACH, RoHS, WEEE
- Country-specific reports available upon request

Interfaces

- Host Interface: USB 3.0 super-speed
- USB powered**
- LAN (Web API) (optional)

Documents

- Machine-readable zone of MRTD documents acc. to ISO/IEC 7501-1 and ICAO 9303 (e.g. ID cards, passports, visas)
- RFID documents acc. to ISO 14443 (A/B), ISO 7816, ICAO 9303 (BAC, EAC, PACE, AA, PA, TA, CA), ISO 18013 (BAP, EAP), PKI (BSI TR-03129)
- 1D/2D barcode documents printed on paper or presented on displays
- Chip cards acc. to ISO 7816
- SAM cards (ID-000 format according to 7810:2003)

BIOMETRIC TECHNOLOGY COMPATIBLE

DOCUMENT AUTHENTICATION

DESKO®

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